**Write a program in a c to store elements in an array and print it.**

#include <stdio.h>

int main()

{

int arr[50], i, number;

printf("\n Enter Number of elements in an array : ");

scanf("%d", &number);

printf("\n Enter %d elements of an Array \n", number);

for (i = 0; i < number; i++)

{

scanf("%d", &arr[i]);

}

printf("\n Elemenst in this Array are :\n");

for (i = 0; i < number; i++)

{

} printf("%d\t", arr[i]);

return 0;

}

**2. Write a program in c to copy the elements of one array into arrays.**

#include <stdio.h>

#define MAX\_SIZE 100

int main()

{

int source[MAX\_SIZE], dest[MAX\_SIZE];

int i, size;

printf("Enter the size of the array : ");

scanf("%d", &size);

printf("Enter elements of source array : ");

for(i=0; i<size; i++)

{

scanf("%d", &source[i]);

}

for(i=0; i<size; i++)

{

dest[i] = source[i];

}

printf("\nElements of dest array are : ");

for(i=0; i<size; i++)

{

printf("%d\t", dest[i]);

}

return 0;

}

**3. write a program in c to count a total number of duplicate elements in an array**

#include <stdio.h>

#define MAX\_SIZE 100

int main()

{

int arr[MAX\_SIZE];

int i, j, size, count = 0;

printf("Enter size of the array : ");

scanf("%d", &size);

printf("Enter elements in array : ");

for(i=0; i<size; i++)

{

scanf("%d", &arr[i]);

}

for(i=0; i<size; i++)

{

for(j=i+1; j<size; j++)

{

if(arr[i] == arr[j])

{

count++;

break;

}

}

}

printf("\nTotal number of duplicate elements found in array = %d", count);

return 0;

}

**4. write a program in c to print all unique elements in an array**

#include <stdio.h>

#define MAX\_SIZE 100

int main()

{

int arr[MAX\_SIZE], freq[MAX\_SIZE];

int size, i, j, count;

printf("Enter size of array: ");

scanf("%d", &size);

printf("Enter elements in array: ");

for(i=0; i<size; i++)

{

scanf("%d", &arr[i]);

freq[i] = -1;

}

for(i=0; i<size; i++)

{

count = 1;

for(j=i+1; j<size; j++)

{

if(arr[i] == arr[j])

{

count++;

freq[j] = 0;

}

}

if(freq[i] != 0)

{

freq[i] = count;

}

}

printf("\nUnique elements in the array are: ");

for(i=0; i<size; i++)

{

if(freq[i] == 1)

{

printf("%d ", arr[i]);

}

}

return 0;

}

**5. write a program in c to count the frequency of each element of an array**

#include <stdio.h>

int main()

{

int arr[100], freq[100];

int size, i, j, count;

printf("Enter size of array: ");

scanf("%d", &size);

printf("Enter elements in array: ");

for(i=0; i<size; i++)

{

scanf("%d", &arr[i]);

freq[i] = -1;

}

for(i=0; i<size; i++)

{

count = 1;

for(j=i+1; j<size; j++)

{

if(arr[i]==arr[j])

{

count++;

freq[j] = 0;

}

}

if(freq[i] != 0)

{

freq[i] = count;

}

}

printf("\nFrequency of all elements of array : \n");

for(i=0; i<size; i++)

{

if(freq[i] != 0)

{

printf("%d occurs %d times\n", arr[i], freq[i]);

}

}

return 0;

}